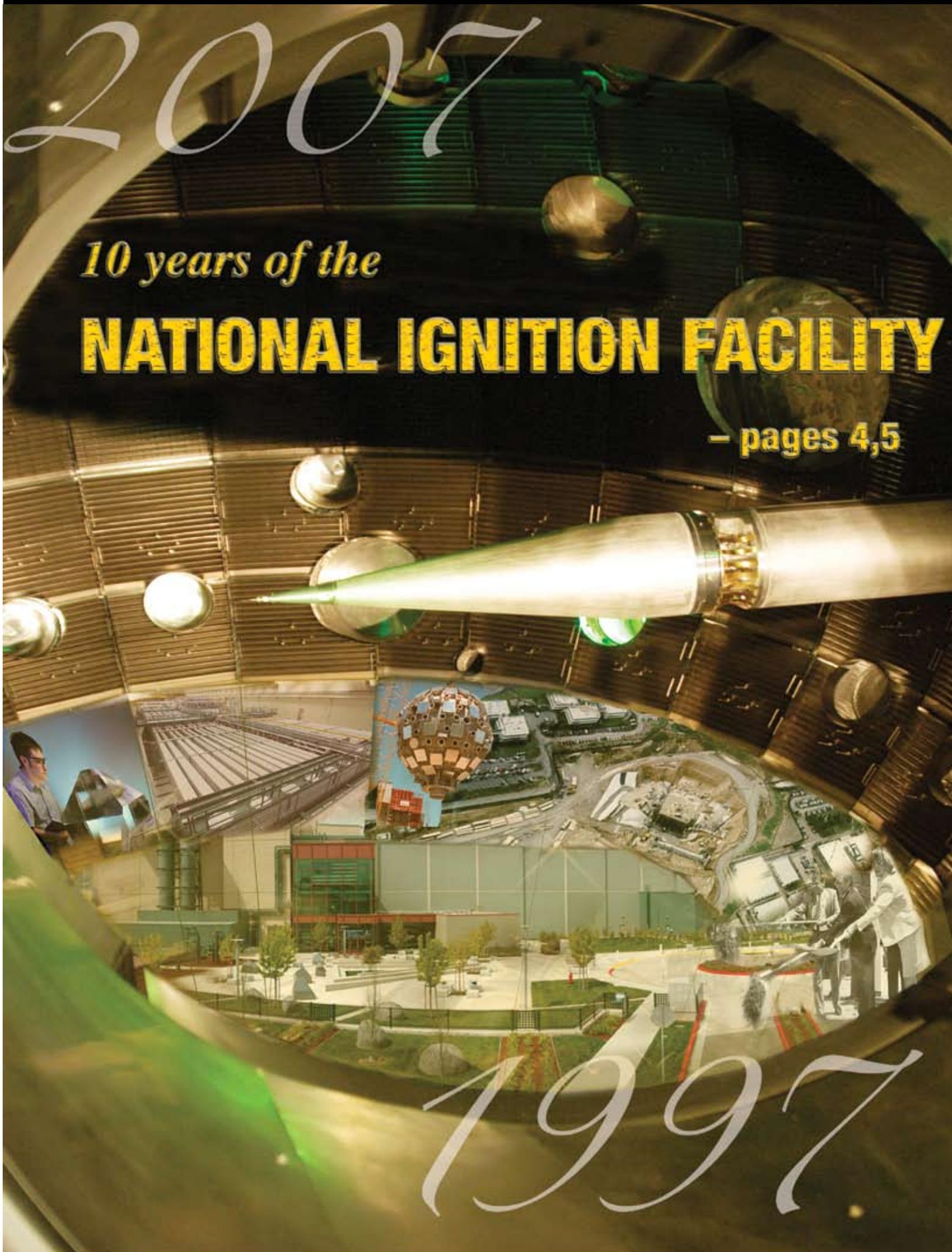


# NEWSLINE

Published for the employees of Lawrence Livermore National Laboratory

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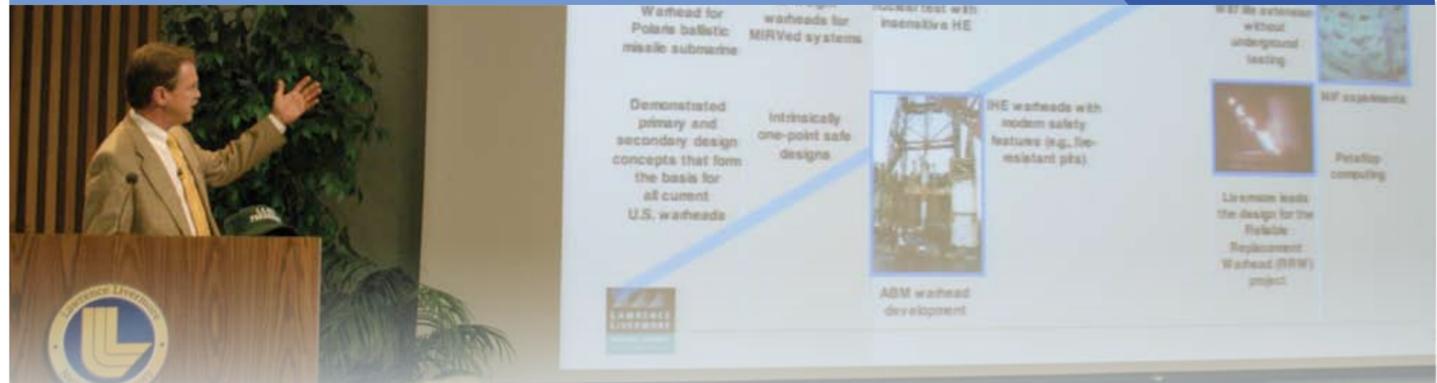


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# 2007 TRANSITION NEWS

## PAD Bruce Goodwin unveils Weapons & Complex Integration organization

By David Schwogler  
Newsline staff writer

The second in the series of transition town hall meetings was held Tuesday afternoon in the Bldg. 123 auditorium, featuring Principal Associate Director Bruce Goodwin who will head the Lab's new Weapons & Complex Integration (W&CI) operations starting Oct. 1.

Goodwin said he was "excited about the Laboratory's opportunities to again lead the weapons complex into the future," emphasizing "integrations," which he defined as "teams of teams."

Historically, he explained, "the Laboratory has changed the way the game is played," from the revolutionary nuclear weapon design for the Polaris missile in the 1950s, to the modern marvels of science-based stewardship and advanced computer simulation today. It is his vision that the Lab will continue to do so in the future.

He introduced his major organization within W&CI: Primary Design, Secondary Design, Weapons Engineering, and Advanced Simulation and Computing. The next level of the organization revealed two entities to deal with Reliable Replacement Warhead projects, W-R1 and RRW-2, as well as four mission-support programs that included Nuclear Materials Technology, Physical Data Research, Nuclear Component Materials and Chemistry, and the Joint NTS Program Office.

Goodwin's vision for W&CI is to be the go-to provider of nuclear weapons science and technology, eliminating the need for any nuclear tests. He explained his related goals were to:

- Design, assess and certify the weapons stockpile without nuclear testing.
- Enable a sustainable nuclear deterrent.
- Develop game-changing technology.
- Mitigate the nuclear threat.
- Enable responsiveness through efficient investments in infrastructure and workforce.
- Team with others to support S&T for national security missions.
- Demonstrate a customer focus and lead by example.

After explaining the current status within the complex, Goodwin commented on the plan for future directions. The focal elements included the RRW program and Complex 2030. The objectives would be to maintain confidence with reduced numbers of nuclear weapons, reduce long-term costs while sustaining the stockpile, introduce intrinsic security and safety, and develop an interdependent and responsive complex.

He pledged that W&CI will find better, faster and cheaper options to maintain the stockpile and support deterrence, citing the example of the efficiencies and economies that were developed with the maturation of the subcritical experiments at U1a in Nevada, and then again through the JASPER gas gun experimentation.

Goodwin explained how RRW can help to sustain the U.S. deterrent with the smallest number of weapons possible, and how W&CI will be a key contributor in redefining the nuclear weapons complex.

Next, he traced the development of computation at Livermore from the vacuum-tube days of the early 1950s, through the current era of Blue Gene/L and Purple, to the exascale systems planned for the next decade. Goodwin emphasized that simulation is the key to eliminating any technical requirement for nuclear testing and enabling transformational experiments.

In a continued look toward the future, he said Project Phoenix will break new ground in pulsed-power research. His directorate will invest in core competencies. "W&CI will develop game changing technology, while avoiding technological surprise and exploiting technological opportunity."

Goodwin closed by emphasizing that W&CI will embrace the LLNS core values relationship. This includes partnering, teaming, forward thinking and cutting-edge science. All the while the organization will embrace "a culture of safety, security, maintenance of an expert workforce, and getting the job done by employing innovation to meet challenges faster, better and less expensively."

MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER
Contract awarded to LLNS	LLNS town hall meetings	Mid July: LLNL employees receive job offer letters	Facility walk-throughs begin	Lab policies and procedures formally reviewed	New LLNL contract begins.
Transition planning begins	Mapping process begins			Current LLNL contract expires	
	Benefits plans meetings				

**PEOPLE** **PLACES** **PROCESSES**

## 2007 CONTRACT TIMELINE

## John Doesburg outlines evolution of Global Security

By Anne M. Stark  
Newsline staff writer



John Doesburg

Global security isn't something that is developed overnight. It evolves.

That is Principal Associate Director of Global Security John Doesburg's assessment of what the new principal directorate is all about.

"When I started to think about global security, I had a brain freeze," he said during his town hall meeting Thursday. "It's difficult to understand the global security concept. But at the end of the day, global security evolves."

After sharing a little about his background in the military and his stint at Oak Ridge National Laboratory, Doesburg outlined the Global Security theme as strong mission delivery and aggressive work-for-others growth while at the same time supporting other programs at the Laboratory.

"When I think about the people who work in this directorate, they are the ones who take on the complex problems that most folks don't want to mess with," he said. "We have to help grow the science and technology. It doesn't do any good if we can't stretch the science and technology."

The proposed organization of the directorate includes a deputy PAD for strategic operations; a deputy PAD for programs including chem/bio, energy security, nonproliferation; and program directors for other areas such as intelligence, defense, domestic security, energy security and nonproliferation.

While those program director offices may be made up of very few people, Doesburg said they would matrix in and out to other directorates such as engineering, chemistry, materials and life sciences to deliver.

A key focus of the program director offices is to foster and grow sponsor relationships. "Each program director has a reach to five, 10, 20, or 40 people who have a relationship with sponsors," Doesburg said. "As we grow global security, the programs of the future are based on the sponsor relationship."

Doesburg's goal is to have work-for-others funding even with core mission (weapons) funding. "And we're not anywhere close to that right now. I'd like to be able to double that level of funding in the next seven to 10 years."

The global security business strategy is focused on key areas: mission driven; customer focus; enable and empowered for growth; program directors supporting the entire Laboratory;

dramatically increase the work-for-others programs in defense, domestic security, nonproliferation, energy security and intelligence.

When Doesburg arrived in California about a month ago, while enjoying the pleasant weather, he had a moment of clarity about the Laboratory: "It's the people. It's been an experience I've never had before."

And while the Global Security Principal Directorate evolves, Doesburg plans to be along for the ride.

"This is a new idea for Lawrence Livermore National Laboratory, but it's just a proposed diagram," he said. "But I need your input and ideas about what global security is all about."

## LLNS rolls out benefits options

Lawrence Livermore National Security, LLC (LLNS) presented its proposed benefits packages to Laboratory employees Thursday.

The proposed plans, known as Total Compensation Plan 1 (TCP1) and Total Compensation Plan 2 (TCP2) are posted on the LLNS Website, [www.llnslc.com](http://www.llnslc.com). The plans were submitted to the National Nuclear Security Administration earlier this month and are expected to be approved in early July.

In addition, briefings on the plans will be held today (June 22) at 10 a.m., Monday at 10 a.m. and Wednesday at noon. Comments on the plans may be submitted to NNSA via email at [llnemployeebenefits@doeal.gov](mailto:llnemployeebenefits@doeal.gov). Comments also may be submitted to the LLNS hotline at 4-LLNS or to the LLNS Website. All comments must be received by noon (PDT) Thursday, June 28.

The briefings are being held to provide employees with an outline of the proposed plans. These are not briefings in which employees must choose between TCP1 and TCP2. Once NNSA approves the plans, LLNS will hold additional town hall meetings to answer employee questions before they must choose. Those town hall meetings will be announced in future editions of *Newsline* and *NewsOnLine*.

As outlined in the NNSA Request for Proposal, LLNS is required to establish a total compensation package that is "substantially equivalent in the aggregate" to that provided by the predecessor contractor, the University of California. This is TCP1. LLNS also is required to establish a market-based total compensation package, for new hires and other transferring employees, and for inactive vested transferring employees, that does not exceed 105 percent of the Relative Benefit Value Index in comparison to DOE-approved comparator companies. This is TCP2.

Both packages are subject to review and approval of the NNSA contracting officer, who will determine substantial equivalence in the aggregate by comparing the LLNL total compensation package with the benefits provided by the predecessor contractor.

Complete details of the proposed compensation plans are available on the Web.

**Comments on the benefits plans** may be submitted to NNSA by e-mail at [llnemployeebenefits@doeal.gov](mailto:llnemployeebenefits@doeal.gov). Comments are due to NNSA by noon (PDT) Thursday, June 28. In addition, LLNS has set up a special hotline, 4-LLNS (4-5567) to take employee questions. Questions also may be submitted via the LLNS Website at <http://llnslc.com>

NNSA has posted the Laboratory's new contract awarded to Lawrence Livermore National Security, LLC on its transition Website at <http://www.doeal.gov/llnl/Competition/NewContract.htm>.

### TCP1

Under TCP1 as proposed, employees will receive a defined benefit pension plan, a defined contribution 401(k) plan and similar health and welfare plans as provided by UC-LLNL (medical, dental, vision, disability, life, legal assistance).

The formula for the defined benefit pension plan is 2.5-3 percent of the high three-year average pay reduced by the Social Security offset, with cost-of-living adjustments. The defined contribution plan creates an unmatched 401(k), with a maximum annual employee pre-tax savings of \$15,500 (plus allowable catch-up contributions).

The plan also includes 12 paid holidays per year, 12 sick leave days per year and 15+ vacation days per year (increasing with length of service). The plan also includes retiree medical with an employer subsidy (if certain eligibilities are met).

### TCP2

Under TCP2 as proposed, health and welfare benefits and paid time off will be the same as TCP1. There is a defined contribution 401(k) plan but no defined benefit pension plan. The 401(k) plan includes an employer dollar-for-dollar match up to 6 percent of an employee's contribution and a service-based employer contribution. Retirement medical is access-only for new hires, and a frozen service employer subsidy for inactive vested transferring employees.

# SCIENCE NEWS

# SCIENCE NEWS

## The National Ignition Facility turns 10

By Bob Hirschfeld  
Newsline staff writer



**W**ith little fanfare, the National Ignition Facility (NIF) last month marked its tenth year since its original groundbreaking.

On May 29, 1997, Secretary of Energy Federico Peña, Lab director Bruce Tarter, and Congresswoman Ellen Tauscher turned a ceremonial shovelful of dirt — as more than 2,000 employees and invited guests looked on.

“NIF will unleash the power of the heavens to make Earth a better place,” said Peña. “Our nation depends on continued leadership in science and technology. Today we move one step closer to a better future.”

Tauscher said NIF would be “an excellent example” of how the national labs will work with the private sector to develop an alternative energy source as well as future technologies.

Harold Smith, Assistant to the Secretary of Defense said, “NIF marks a creative step toward meeting the needs of national security.”

The audience included representatives from the University of California and other universities and industrial partners, as well as British and French collaborative institutions.

A decade later, NIF construction is now more than 90 percent complete, with 80 of its 192 beams operational. Already, NIF has demonstrated the ability to produce 1.7 megajoules of infrared laser energy, establishing its ability to achieve 4.2 million joules in the infrared when all beams are activated. NIF has also completed experimental demonstrations that show its ability to meet all of its ultraviolet light specifications.

NIF has already conducted significant experiments, and by next year at this time will begin target chamber experiments with hundreds of kilojoules of energy, more

than 10 times greater than have ever been reached before.

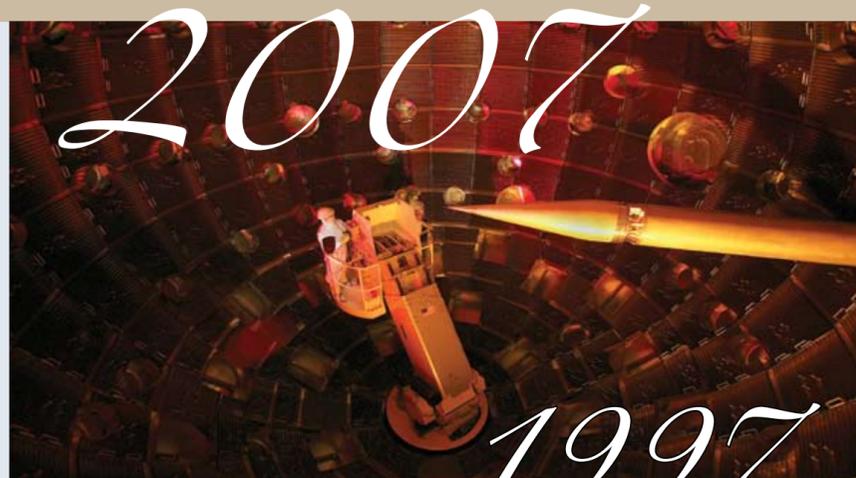
The project is on schedule for completion in mid-2009, with the first attempts at achieving thermonuclear burn beginning the following year. Ultimately, NIF’s beams will be focused on a 2-mm fuel pellet for a few billionths of a second, creating a tiny thermonuclear burn similar to what happens deep inside the sun. It’s a major scientific accomplishment that has never been achieved under controlled conditions in a laboratory.

Preparations for user collaborations are under way as part of the National Ignition Campaign.

Tarter, who is now the Lab’s Director Emeritus, last week recalled the groundbreaking event, saying, “It’s been both gratifying and rewarding to watch the progress NIF has made over the past decade. Despite the ups and downs, the project is now very close to becoming one of the most extraordinary scientific facilities ever conceived and built.”

He added, “I look forward with great anticipation to see its valuable contributions to pure science, fusion, and the nation’s weapons program. Without a doubt, NIF’s next few decades will prove to be remarkable.”

Ed Moses, associate director for NIF Programs, offered his congratulations to everyone involved: “The NIF project shows the unique capability of the Lab to marshal forces across a broad range of scientific, engineering and administrative areas to build one-of-a-kind capabilities for our nation and the world.”



## The Mercury laser: Paving the way for the next step

Concurrent with the National Ignition Facility and its goal of achieving thermonuclear burn, is another ambitious laser project named Mercury.

Mercury, housed in Bldg. 381, is a single beam laser system that has developed capabilities that will advance on NIF’s accomplishments.

As currently designed, NIF operations permit the 192 beams to fire simultaneously only once every few hours. After each shot, the thousands of optics must be given a chance to cool down to ensure that they can operate correctly for the next shot.

Mercury has developed a method of continuously cooling the optics, while at the same time allowing the laser to fire rapidly over extended periods.

The current technology propels high-velocity helium gas across the optics to keep them cool, while laser pulses pass through the optics at a sustained rate of ten per second.

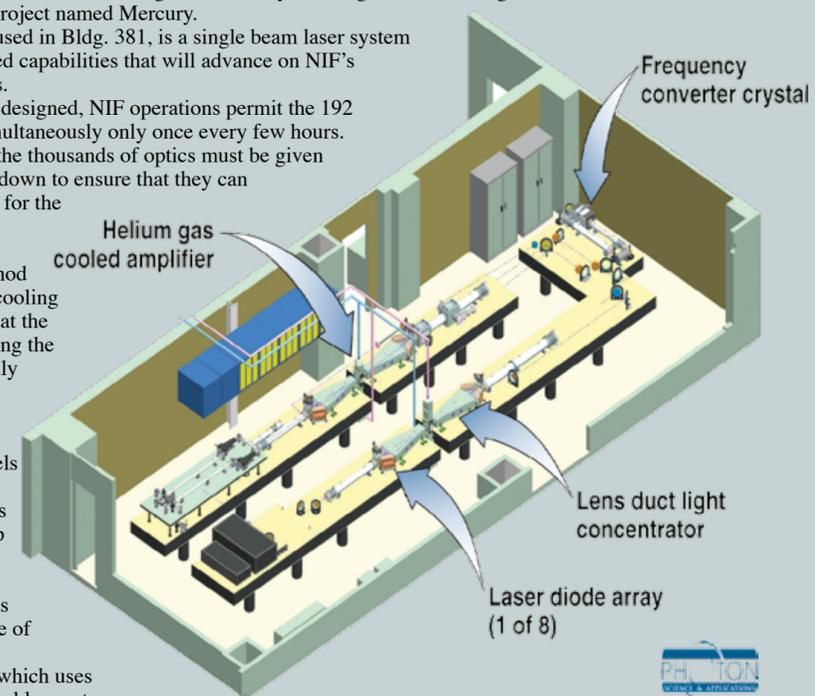
Unlike NIF, which uses seven-foot tall flashlamps to energize the laser amplifiers, Mercury relies on diode lasers — analogous to those in commercial read/write CD players — which give off three times less heat than flashlamps.

Mercury’s beam is amplified as it passes through slabs of specially grown ytterbium-strontium fluoroapatite crystals, as opposed to NIF’s neodymium-doped phosphate laser glass. More advanced amplifier media, such as transparent ceramics, are also being developed.

At this point, Mercury has been able to run continuously for several hours (270,000 shots), firing ten times per second at over 50 joules per shot, each shot lasting just 15 nanoseconds (billionths of a second).

The project, which began in 1996 and funded through the Laboratory Directed Research and Development (LDRD) office, has already been awarded three R&D 100 Awards, most recently for developing a unique frequency conversion crystal. Earlier awards were for the original design of Mercury’s diode array, and for its Pockels cell, a unique light-switching technology.

The long term goal is a laser system capable of NIF’s energy output. Mercury’s ability to rapidly fire shots, and innovations that will enable the laser beam’s ultimate destination: the rapid ignition of targets for electrical power generation.



Counterclockwise from top left: Prototype NIF target; cleanroom workers inspect a plasma electrode Pockels cell (PEPC) assembly; target chamber being hoisted into NIF building in 1999; checking potassium dihydrogen phosphate (KDP) crystal; one of NIF’s two laser bays, which house 96 beams each; upper portion of 10-meter-diameter target chamber; aerial view of construction in January 1998; groundbreaking ceremony that featured Lab Director Bruce Tarter (left), Secretary of Energy Federico Peña and Congresswoman Ellen Tauscher; workers inspect target positioner extended to center of target chamber.



— By Bob Hirschfeld



## i.want ads

Due to the high quantity of ads and space limitations, these want ads have been abbreviated. For the complete ad listings, refer to the internal Website: <http://www-r.llnl.gov/pao/news/wantads.html> or for the latest pdf download and retiree information, see the external Website: <http://www.llnl.gov/pao/employee/>. Please note that these ads appear on the Web.

**Date of ads: Approx. June 13 to June 19. Ads appear on the Web for seven days.**

**AUTOMOBILES**

'96 Mercury Marquis. \$6,000 56k mi. 925-443-2866

1986 Ford Thunderbird. \$800. 925-684-2320

1990 Corvette. \$7,500. Black, 5.7 liter, automatic, 68K miles. 925-449-7651

1991 Ford E-150 Van Conversion. \$2,000. V8, AC, TV, VCR, fridge, sink, rear seat folds to bed, 88k miles 925-455-6523

1993 black Lexus E300. \$4,200. 140K miles. 925-998-0805

2000 Ford Tarus SEL. \$5,765. 86K miles. 925-938-4136

2000 Subaru Outback - Limited Edition. \$8,900. 138K hwy miles. 925-371-1854

2002 Cabrio VW GLX. \$11,950 61K miles. 925-960-1648

2006 BMW M3 coupe. \$52K obo. Titanium slv/blk lthr. 925-820-4515

K5 Jimmy/Blazer. \$3,500. 89k miles, 23" rims are on now will sell with rims for 4,500 obo or 3,500 obo with 33" tires. 925-487-4974

2001 Lexus ES300, \$17,700, 87K mi, Coach Edition. 209-518-2156

New tire. \$75 OBO. Mounted, size 205 X 75 X 15. 925-735-6002

1998 red Mustang convertible. \$7,500. 13.8 Liter V-6. 925-371-8111

**ELECTRONIC EQUIPMENT**

27 inch Sony TV w/ stand, cable-ready. \$125. 925-606-6954

AT&T/Cingular 8525. \$400. 209-915-5777

Dell 2000FP monitor. \$150 OBO. Includes VGA & DVI cable. 925-449-4341

LaCie external CD burner. \$50. 925-443-4292

Connoisseur stereo turntable. \$30 obo. 925-846-8394

Nikon 16mm, fisheye f2.8 lens. \$400 925-443-4292

Nikon 180mm, ED AF f2.8 lens. \$400. 925-443-4292

Nikon FE-2 35mm camera, lens. \$190. 925-443-8191

**GIVEAWAY**

17" COMPAQ color monitor. Must pick up. 925-449-2620

Brass and glass chandelier. 925-455-9125

Glass table top. Must pick up. 925-449-4341

PAMI pebbles. 200 lbs, approx 2 cu ft. 925-455-5575

**HOUSEHOLD**

Baby Trend Sit n' Stand double stroller. \$75. 925-997-1568

Beautiful solid wood display shelves. \$145. See online photo. Prices are firm. 925-640-5469

Built-in Kenmore model 665 Ultrawash dishwasher. \$75. 24" built-in, black finish. 925-398-0545

Serta Grand Sonata cal king mattress. \$200 obo. 925-443-4741

Cherry wood formal dining table & chairs. \$250. With leaf seats 8. 209-483-6278

Custom cherry stereo/TV cabinet. 49" w x 27" d x 29" h. Must sell - make offer. 925-846-8394

Walnut desk. \$45. 36" X 70" 30.5" high. One drawer, on casters. 925-245-9648

Antique dining table with 8 chairs. \$400. No leaf. 925-454-1478

Bedroom armoire \$30, dk wrd crib \$50, 3 blk bar stls \$25, white ktch cabinet \$10, Lt oak TV stnd \$30, 209-832-4576

Hanging stained glass kitchen lamp. \$75. Pink, green, white, and clear hummingbird motif. 925-398-0545

Moving Sale. Sat. 6/23, 8am-2pm, 899 Dana Cir. Livermore; elec. lawnmower, weed trimmer, hedge trimmer, washer, dryer, 40" tv & much more. 925-447-7255

Toro Lawnboy mower/mulcher. \$250. 510-455-0939

Oak clawfoot dining table. \$50 OBO. 530-251-3685

Formal oak dining room set with hutch, buffet and 2 leaves. \$500. 925 362 8796

Glass-top rattan dining table and 6 chairs. \$150. 925-373-7025

Stove, refrigerator, washing machine as well as furniture. Excellent prices. 925-353-0157

Henredon 3 piece sectional beige/ecru/gold downfilled sofa. \$1500. Glass top wood pedestal base coffee table. \$650. 925-634-7573

**LOST AND FOUND**

Found: small ladies coin purse in lab bike basket 6/7/07 near Bldg. 490. Cute puppy on front. 925-625-4806

Lost - black binder with passport, in either Bldg 319, 141, or while biking between the two. Black hardcover, three ring binder. Contains some lined paper, stamps, new employee information, and behind it all a US passport. 850-694-3117

**MISCELLANEOUS**

14K gold men's wedding band.

\$190. Size 12. 209-830-9109

Baby items. \$20-40. Gates, battery operated baby swing, crib mattress, entertainment saucer, car seats for infants to 60 lbs., toys. 925-373-6833

Barbie electronic guitar. \$25. 925-648-0671

Baseball bat aid. \$30. For ages 7 and up. 925-648-0671

Graco infant car seat base and Baby Bongo Seat. \$20/each. Call 925-449-4981 after 5 p.m.

Fisher Price aquarium infant swing. \$40 925-487-8506

Garage sale. Saturday 6/23; call for address. 925-443-3106

12" George F. Crane Company globe \$10. 925-245-9648

2 Great America tickets. Reasonable price. 925-735-6002

Soccer ball-shaped humidifier. \$15. 925-648-0671

Interior/exterior trim. \$1 Ft. Interior casing 2 1/4 and 3 1/4. Exterior trim 2x6, 1x4, 2x4, and 1x6. 925-998-9372

Scully Italia woman's leather briefcase. \$25 obo. 925-846-8394

Model skeleton. \$35. 32 inches tall. 925-245-9648

Shopsmith Mark V 4-in-1 machine. \$3,500. 925-373-6833

1 Ticket to Los Lonely Boys Concert. \$50. Went to Vineyards on Aug. 16. 925-846-3278

**MOTORCYCLES**

2000 Honda 929 CBR, \$3,900. 7,400 mi, new brake fluid. 925-443-8191

Dyna glide Harley. \$10,000. Blue and chrome. 209-858-1209

2003 Kawasaki Ninja 500. \$4,000. Low 530-917-7514

**MUSICAL INSTRUMENTS**

Australian Didgeridoo. \$50. Key of D#, painted. 925-634-2701 after 5 p.m.

Guitars. Gibson S.G. \$850. American Fender Stratocaster \$750. Both with gig bags Call 209-351-0631.

1903 Chickering upright piano \$2,500 OBO. 925-634-9973

**PETS**

37 gal. Aquarium. \$400/bo. W/ credenza, filter and cover. 209 839-0872

Cavalier King Charles Spaniel pups Male - Ruby; Female - Black & Tan; 650-714-1612

Palomino horse. \$2,000. 17 yr. old gelding. Call after 5 p.m. 209-239-2812

Large bird cage. \$225 5 ft tall, on stand with wheels (all one unit). Call 925-684-2320 or 925-437-0428.

Pretty Siamese Cat needs home due to its owner moving to an assisted living facility. The cat is 11 years old and does not like other cats. Quite sociable with people and is great company. 925-484-3889

**RECREATION EQUIPMENT**

Brand New 2007 Burton Titan travel golf cover. \$75. 925-829-9443

Duck/goose decoys. \$250 6 dozen duck and 3 dozen goose. 209-823-1111

Fishing float tube. \$25. Ablone float with ab-iron & gauge \$15. 925-634-2701

New Ben Hogan Big Ben Putter with magnetic head cover. \$75. 925-829-9443

Nordic Track with heart monitor. \$30. 510-455-0939

Dynamics LM9000 Home Gym weight machine. \$100. 925-846-1453

**RIDESHARING**

Wanted-Ride share from Tracy 9/80 crew start time 6:30 a.m. 209-338-8869

From Tracy, flexible hours. 209-221-7836

Vanpool-Immediate openings available. Stops in Modesto and Ripon. 8 a.m.-4:45 p.m. schedule. Ext. 2-2727 or 209-544-6411

**WANTED**

Used X Box 360 for my son. 209-914-2132

15 X 8 Inch chrome 5 Lug wheels. Chevy Toyota pattern for my motorcycle trailer. 209-338-8869

Inexpensive starter set of men's golf clubs for right-handed teenager. 925-426-0721

Need Ipod Nano clickwheel repaired. 925-552-0282

Patio table and 6 chairs. 925-443-1673

Looking for roofer that will install tile roof. 925-735-6002

Large storage sheds. 925-245-1705

Aviators wanted! New LLESA group for pilots, those interested in learning more about aviation. 925 323-8223

Weight set for my son (weights, bar, etc - I have the bench already). Can pick up in Livermore, Tracy or Manteca. Call Debbie 209-321-4831 or 209-824-6089

**TRUCKS**

1998 Dodge 1500 QuadCab 4X4. \$9,800. 925-876-5588

2002 F150 XLT Supercab Shortbed. \$14,000 25k miles. 925-371-8111

2003 Chevy Silverado LS 1500 Extended Cab. \$16,000. 35K miles. 209-234-2337

2006 Chevy Silverado. B/O. 3/4ton, crew cab, short-bed, 8.1 liter gas engine, 12k miles. 925-634-5851

2004 Dodge Ram 2500 4x4 SLT. \$27,000. Heavy Duty Turbo Diesel 45K miles. 925-216-4438

**VACATION RENTALS**

Arnold area mountain home. 1,600 sq. ft. 4 BR 2 BA. Website available for info. 925-245-1114

Kona big island Hawaii vacation home. 5 BR/3 BA; sleeps 12 people. 415-377-5361

Maui- house exchange. Exchange with similar home in Livermore area. Pics and more information available. Call 925-422-2578 for details.

Kahana Reef oceanfront 1BR/1BA condo. 925 449 0761

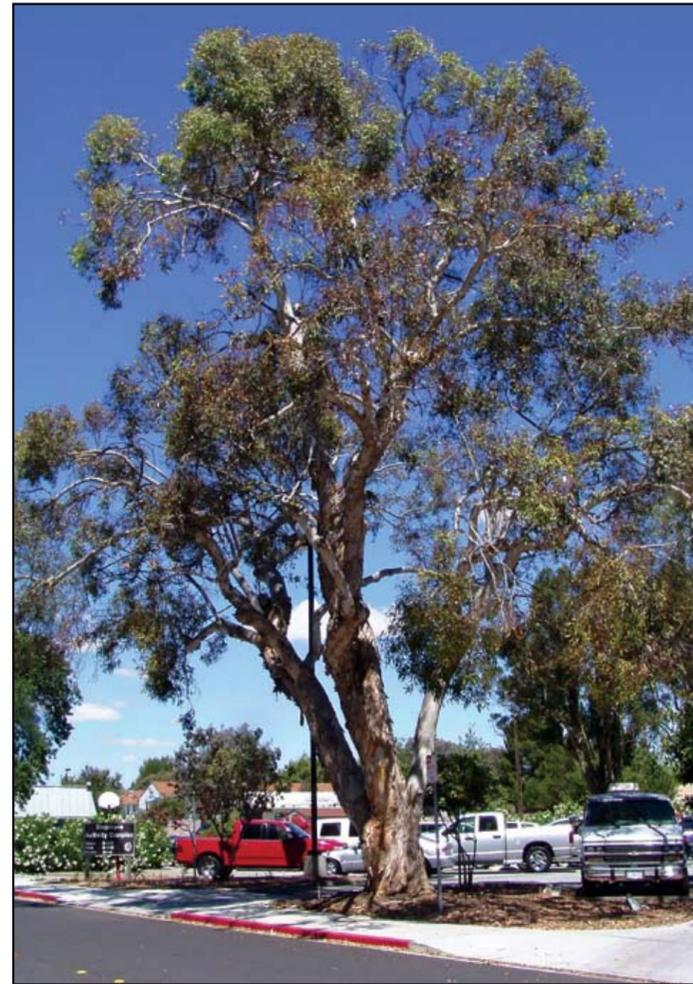
Pinecrest Lake mountain cabin. \$225/wknd. 3 BR/2 BA. 925-449-5513

South Lake Tahoe chalet. Lab rates. 3 BR 2 BA. 209-599-4644

South Lake Tahoe cabin. \$100/night Sleeps approx. 8. Serious inquiries only, please. 925 556-9511

Truckee/ Tahoe Home. 3 BR/2 BA, sleeps 8+. 925-784-0245

Monte Rio wine country getaway. 925-513-4767, or churchemm@aol.com, or Pearson15@llnl.gov.



## High risk eucalyptus trees to be removed

There are 1,300 eucalyptus trees at the Laboratory that offer aesthetic appeal to the landscape, yet may be dangerous because of their natural life cycle.

As these trees begin to reach the end of their useful lifespan, they enter a phase of decline and their structural stability comes into question. These hidden hazards are cause for concern for pedestrians, cyclists and motor vehicles due to their unexpected "self-pruning."

Some species of eucalyptus have a habit of dropping entire branches as they grow. It is thought the trees shed very large branches to conserve water during periods of drought. In their native Australia, the tree is nicknamed the "widow maker" because a high number of pioneer tree-felling workers were killed by falling branches and many people have been killed as they camped underneath the trees.

At Livermore, defects in structure such as trunk decay, poor branch attachment and wounds are evident in a fraction of the 1,300 trees, making them a high risk. As the

decay degrades the healthy wood and weakens the tree's overall structure, the potential increases for the entire tree or a main stem to fail. This is not to say that trees without significant defects will not fail. During a heavy storm, wind forces can exceed the strength of defect-free wood, causing branches to break and entire trees to fall.

The Laboratory's Facility Governance Board and the Operations Council approved the removal of high-risk trees to begin as soon as possible. Based on the aggressive time schedule, work will begin as soon as the subcontractor prepares site specific safety plans and coordinates with facility points of contact to prepare each area with barricades and postings. Employees will begin to see progress the first week in July.

Replacement trees will be planted in the same relative locations with adjustments made to accommodate infrastructure and/or aesthetics to ensure that the overall look and feel of the site is maintained.

For questions, contact Bill Maciel at 3-1900 or maciel3@llnl.gov.

## PEOPLE NEWS

## IN MEMORIAM

## Carl Thomas Cuddihy Jr.

Carl Thomas "Tom" Cuddihy Jr. died at his home in Quincy, Calif., June 8, after a long battle with cancer. He was 62.

Born in 1944 in Oakland, Cuddihy came to work at the Laboratory in the late 1960s. He worked in M Division on Project Sherwood and later in the Weapons Engineering program for Mechanical Engineering. Cuddihy

retired in 2005 after 38 years of service.

His interests included fishing, camping, hiking, building houses and furniture and fixing cars.

Cuddihy is survived by his wife Donna Cuddihy, three children, four stepchildren and one adopted child.

A memorial service has been held Memorial contributions may be made to the American Cancer Society.

## Juneteenth celebration



PHOTO BY JAQUELINE McBRIDE

(From left) Jennifer Nelson-Childs and Novella Barnes serve food at the Juneteenth celebration and scholarship fund-raiser presented by the Association of Black Laboratory Employees (ABLE) Tuesday at the employee picnic area. The event offered a time to visit friends and listen to Motown favorites. About 240 tickets were sold.

Juneteenth, a name derived from the words June and nineteenth, is also known as "Freedom Day" or "Emancipation Day" and commemorates the announcement of the abolition of slavery in Texas in 1865. The Lab event was co-sponsored by the Work-Life Center and the Veterans Association.

## NEWSLINE

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## Lab bids Air Force fellows farewell

By David Schwoegler  
Newsline staff writer

In a brief ceremony Wednesday morning, the Laboratory first recognized, then bid a formal adieu to two U.S. Air Force officers who completed a one-year assignment at Livermore as part of an Air Force fellowship program. Major Matt Dillow and Major Jerome “Jerry” James were the officers honored.

For one year, Dillow worked in the Nonproliferation, Homeland and International Security Directorate, primarily as an analyst with the Counterproliferation Analysis & Planning System (CAPS) program. He found this assignment quite a contrast to his Air Force role, where he had worked in operations as a missile launch officer. His biggest take-away from a year at Livermore was the realization that, “It is much more than a nuclear weapons lab. Lots of really important things are being done here. There’s a deep reservoir of intellect that I can call upon in the future.” And in his immediate future, he says that his next assignment will take him to the Pentagon.

James had been assigned to the Defense Engineering Technology Division working on a use-control investigation that he described as “the coolest project ever.” His role was to put on his bad-guy hat and try to achieve an unauthorized detonation of a U.S. nuclear weapon. During his brief tenure here, the tight security and the great people he worked with impressed him the most. And he was amazed by the vastness of all the involvements within stockpile stewardship. From Livermore, he says he’ll be headed to F. E. Warren AFB in Wyoming.

There are three organizations behind this cooperative Air Force–National Laboratory Technical Fellowship Program. The entities are the Air Force Directorate of Strategic Security; Lawrence Livermore National Laboratory; and The College of Aerospace Doctrine, Research and Education, Air University.

The agreement applies to Air Force field-grade officers who hold the rank of major and above. They serve as fully accredited members of the Livermore professional staff while working on assignments in NHI or in Defense and Nuclear Technologies. This service will qualify for professional military education credit for Intermediate Service School.

The assignment of most Air Force fellows is one academic year. But pending Air Force approval, fellows could earn a master’s degree during an extended assignment at the Lab of approximately two-years.

Air Force fellows are assigned a Laboratory mentor from the professional scientific staff during their assignments. The Lab’s National Security Office oversees the program. Technical assignments and mentoring elements will be the responsibility of DNT or NHI. And the University Relations Program



George Sakaldasis (center) of the National Security Office honors two Air Force fellows who have completed one-year tours at the Laboratory. Major Matt Dillow (left) worked in NHI, while Major Jerome “Jerry” James (right) was assigned to Defense Engineering Technology Division.

coordinates the master’s degree elements.

The Air Force has requested that two new officers be introduced into the program each year, to revitalize their nuclear or counterproliferation career path and give them first-hand insight and experience into the Lab’s relevant programs. Those Air Force officers will be ranked at major or above, or equivalent. They must hold a Department of Defense top secret clearance with authorized access to classified nuclear weapons design information, or CNWDI (RD).

“This is a small investment that we think will pay big dividends to the Air Force,” said Maj. Gen. Robert L. Smolen, commander of the Air Force District of Washington and one of the originators of the fellows program.

“It’s a real win-win arrangement,” said George Sakaldasis of the Lab’s National Security Office. “The Air Force officers expand their circles-of-influence within the DOE community and become knowledgeable as they fill key staff positions in Air Force operations. The Laboratory will have the opportunity to maintain these contacts for its national security programs.”

## Upcoming Town Hall meetings

June 26

Science and Technology,  
Cherry Murray, 10 a.m.

June 26

National Ignition Facility and  
Photon Science,  
Ed Moses, 11 a.m.

June 28

Director’s Office,  
George Miller, 1:30 p.m.

**TOWN HALL  
MEETINGS**



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